Math 54 Fall 2017 Sample Quiz 12

> You have 20 minutes to complete this quiz. To receive full credit, you must justify your answers.

Name : _____

1. (5 points) Solve the given initial value problem, where $y(\pi) = e^{\pi}$ and $y'(\pi) = 0$

$$y'' - 2y' + 2y = 0$$

2. (5 points) Find a particular solution to the differential equation:

$$4y'' + 11y' - 3y = -2te^{-3t}$$